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NEMENSURI, M.; ALIMAN, K.

Significance of myotatic reflexes in athletic motions, Acta physiol, hung. 11(Suppl):79-80 1957.

1. Lehrstuhl fur bewegungslehre und heilgymnastik der hochschule fur leibesubungen, Budapest.

(PHISIGAL EUGATION AED TRAINING myotatic reflexes in phys. exercises, study by motion picture (Ger.))

(MUSCIES, physiol, same)
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Memesguri, Mihaly, dr.

Work of sport physicians. Nepegeszsegugy 43 no.6:185-188 Je '62.

1. Kozlemeny as Egeszegugyi Miniszterium Orszagos Testneveleses Sportegeszsegugyi Intezetobol.

(SPORT MEDICINE)

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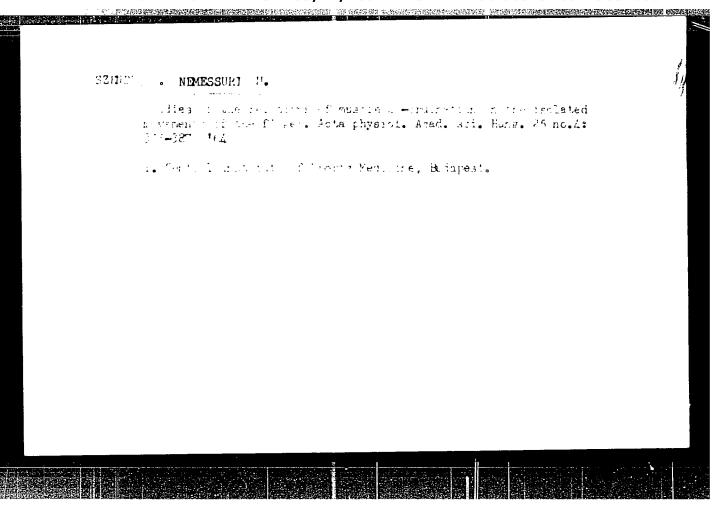
NEMESURI, Mihaly dr., az orvostudomanyok zandidatusa

Physiology of developing muscular strength. Elet tud 18
no.51:1625-1626 22 D '63.

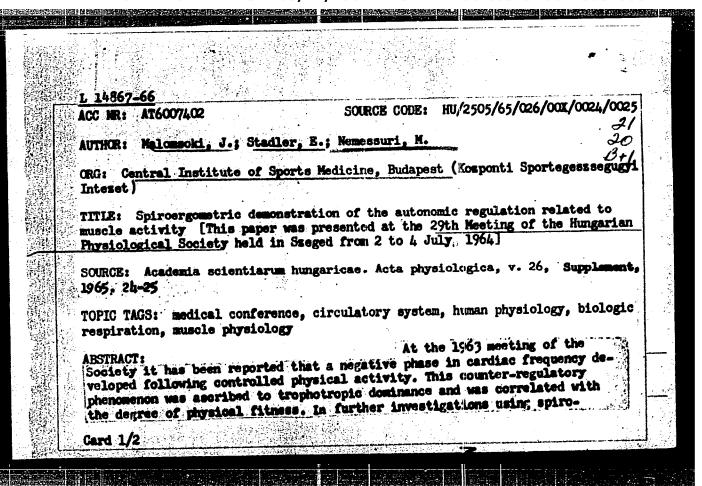
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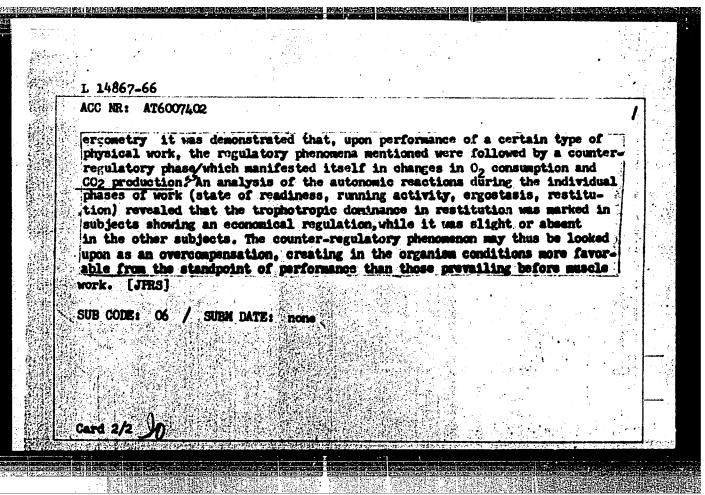
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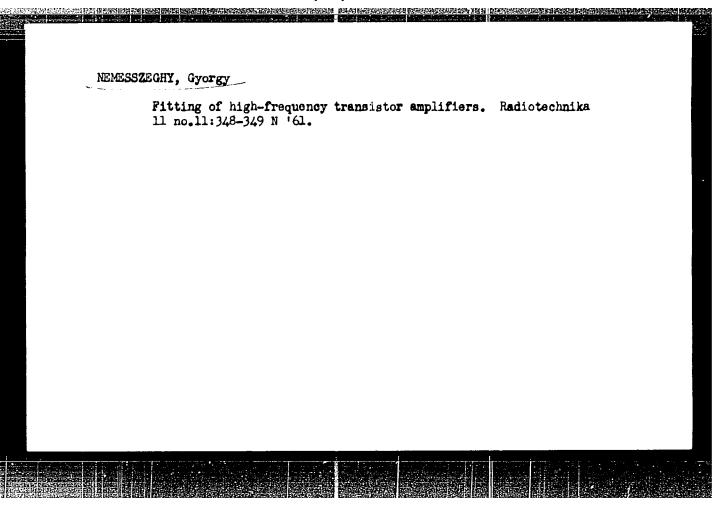


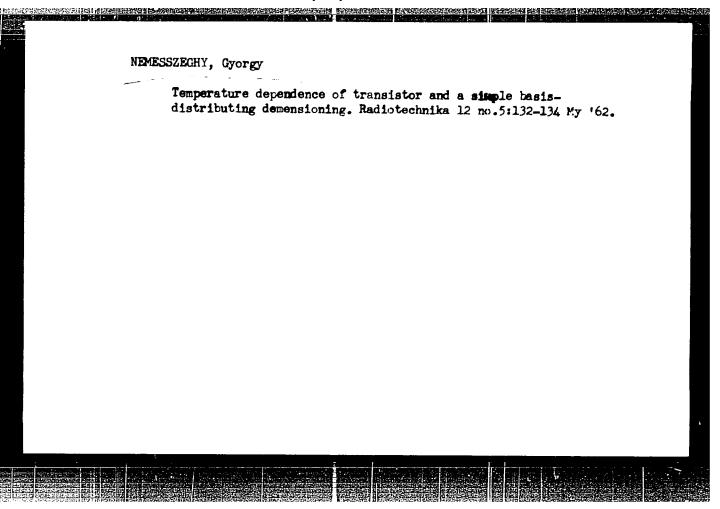


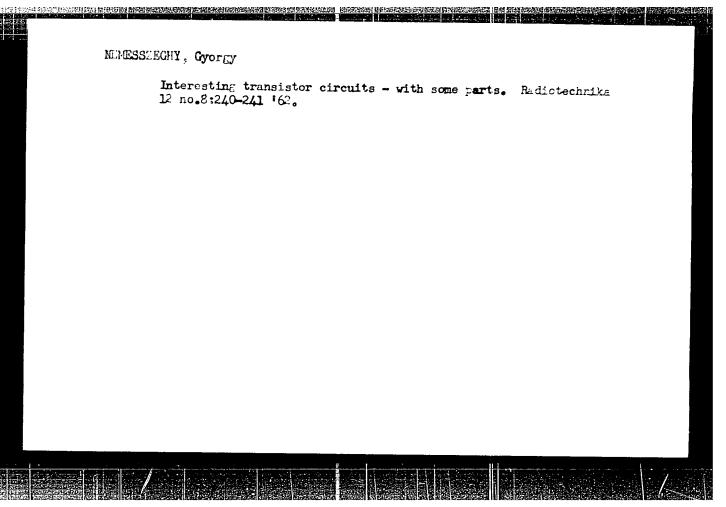
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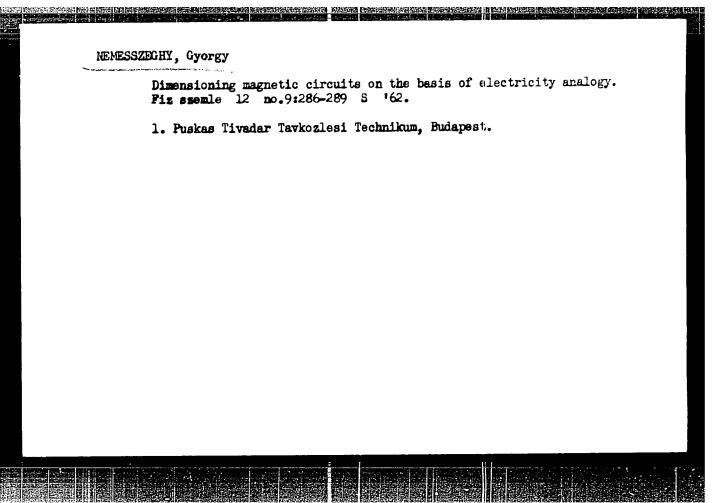
Experiments with nonlinear condensers. p. 196. RADIOTECHNIKA, Budapest. Vol. 5, no. 9, Sept. 1955.

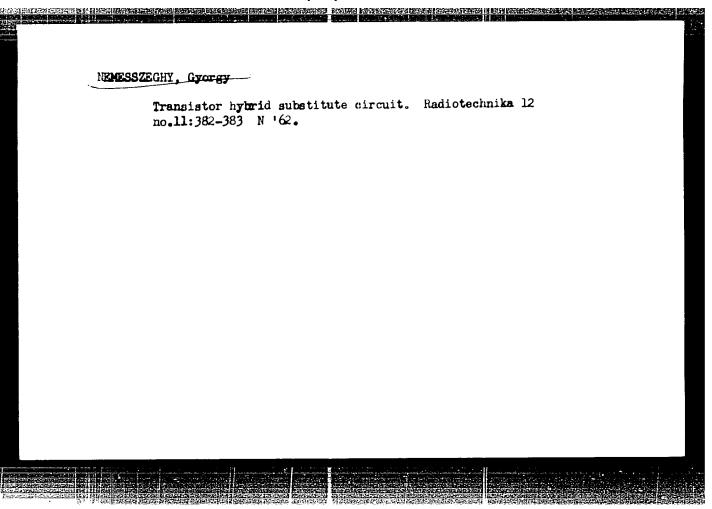
SOURCE: East European Accessions List (EEAL), LC. Vol. 5, no. 2, Feb. 1950

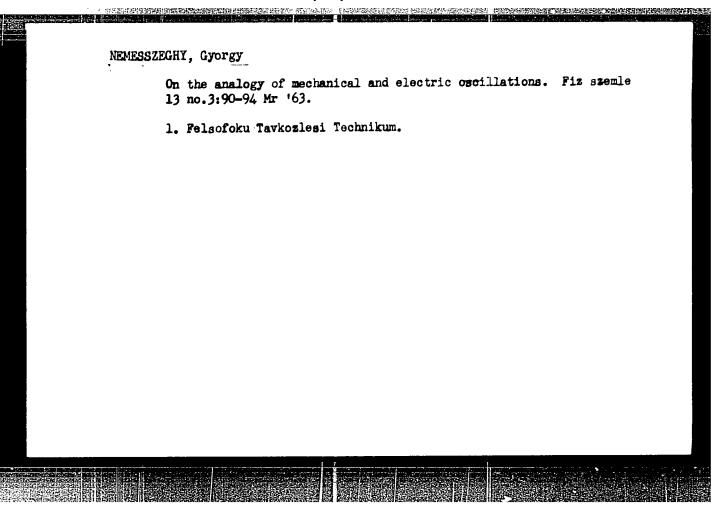


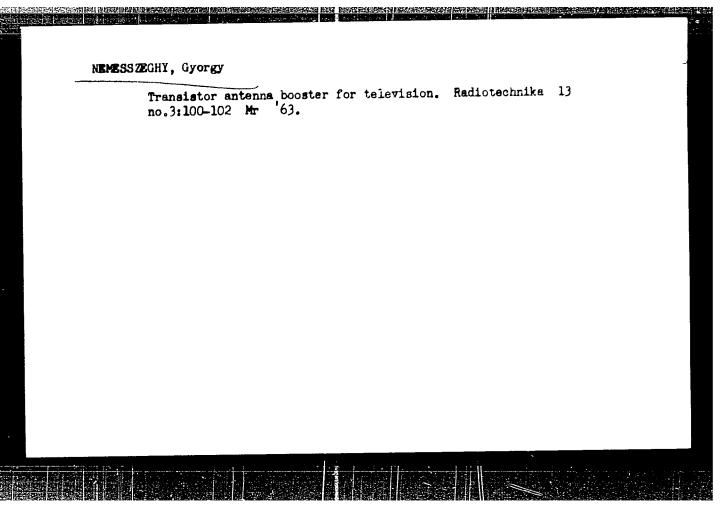


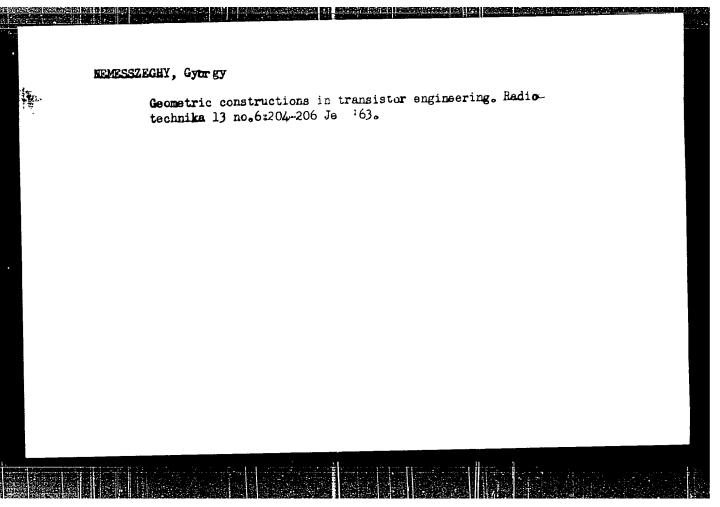








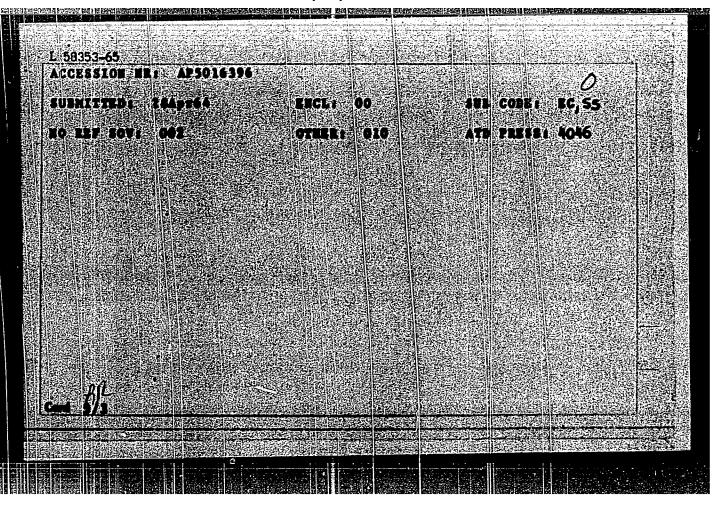




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L 35266-66°

ACC NR: AP6024759

SCURCE CODE: HU/0012/65/013/011/0335/0337

AUTHOR: Lorinczy, Andras-Lerintsi, A.; Nemeth, Tibor-Nemet, T.; Nemethne, Sallay Margit-Nemet, Sh. H.

ORG: Research Institute for Technical Physics, MTA (MTA Muszaki Fizikai Kutato Intezete)

TITLE: Pressure transducer using a photodiode

SOURCE: Meres es automatika, v. 13, no. 11, 1965, 335-337

TOPIC TAGS: pressure transducer, photodiode

ABSTRACT: A new pressure transducer was described. It is based on a Bourdon-tube manometer operating in the 0 - 200 atm. pressure range to which a movable shield is attached. This shield moves in front of an incandescent bulb and partly or fully shields its light from a photodiode. The photocurrent is read as the measure of the pressure. The mechanical construction, electrical circuitry, operation, performance, and applications of the device were described in some detail. The characteristic curves for the transducer and the methods for its calibration were described. Orig. art. has: 4 figures. [JPRS: 34,162]

SUB CODE: 09 / SURM DATE: 07Aug64 / ORIG REF: 001 / OTH REF: 005

Cord 1/1 ///

UDC: 621.398:53.032:621.382.2.082.52

NEMET YE. S.

NEMET, YE. S. -- "Investigation of the Kinetics of Adsorption in a Suspended Layer."
Min Higher Education USSR, Leningrad Order of Lator Red Banner Technologic: I Inst imeni
Leningrad Soviet, Chair of Processes and Apparatus, Leningrad, 1955 (Dissertation For
the Degree of Doctor of Technical Sciences)

SC: Knizhnaya letopis', No. 37. 3 September 1955

K-1

USSR/Processes and Equipment for Chemical Industries

Processes and Apparatus for Chemical Technology

: Referat Zhur - Khimiya, No 4, 1957, 14185 Abs Jour

Romankov P.G., Lepilin V.N., Nemet Ye.S. Author

Adsorption in Suspension Layer Title

: Khim. nauka i prom-st', 1956, 1, No 3, 317-324 Orig Pub

: By methods of theory of similarity a set of criteria was Abstract

derived which define kinetics of process of sorption from flow of mixture during period of constant rate of sorption (prior to passage) and period of dropping rate of sorption (after passage). To determine nature of functional correlation between criteria, experimentally investigated was adsorption, under dynamic conditions, of gasoline vapor from air (initial concentration Co = 4-30 mg/ liter). Experiments were conducted with activated carbon of grades BAU, AG, AR with particle diameter 0.5-3.5 mm in

columns 32-125 mm diameter and initial height of layer

Card 1/2

- 22 -

SOV/124-58-8-8996

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 98 (USSR)

AUTHORS: Romankov, P.G., Lepilin, V.N., Nemet, Ye. S.

TITLE: Some Aspects of the Aerodynamics of a Suspended Layer Under Conditions Obtaining in Narrow Conduits (Nekotoryye voprosy

aerodinamiki vzveshennogo sloya v usloviyakh uzkikh trub)

PERIODICAL: Tr. Leningr. tekhnol. in-ta im. Lensoveta, 1957, Nr 39, pp 28-33

ABSTRACT: Glass conduits 32, 49, and 52 mm in diameter are used to inves-

tigate the process of formation of a suspended layer. The suspended layer here consists of irregularly shaped particles of low mechanical strength. Particle diameters varied from 0.5 to 3.5 mm, the initial height of the layer from 50 to 500 mm, and the densities from 0.482 to 1.08 g/cm<sup>3</sup>. Air is blown through the layer. The authors show that prior to formation of a pseudofluidized layer the resistance to a flow increases with increasing flow velocity. In the velocity range delimited, at the low end, by the velocity at which the particles just begin to be lifted into suspension and, at the high end, by the velocity at which all of them have passed into suspension, the

Card 1/2 resistance exerted by the conduit decreases somewhat, but beyond

SOV 124-58-8-8996

Some Aspects of the Aerodynamics of a Suspended Layer (cont.)

, that velocity at which all the particles have passed into suspension it becomes constant, remaining equal to the weight of the suspended layer. On the basis of an analysis of their experimental data the authors evolve a formula for determining the head losses in this range of flow velocities

$$\Delta p = 1.02 \frac{G}{5}$$

wherein  $\Delta p$  is the head loss in the layer, G the weight of the layer, and S the cross-sectional area of the conduit. The fact that the numerical coefficient is not equal to unity is attributed by the authors to energy losses occasioned by the overcoming of friction. When a certain critical velocity is reached, the granular substance of the particles starts to be eroded and carried off---which produces a sharp drop in the resistance. A detailed description is given of the peculiarities of the motion of the suspended material. In this connection, it is found that the particles travel through the layer in a chaotic fashion and that, as reported by other investigators, too, the layer pulsates and funnels form within it. Bibliography: 9 references.

Ye. M. Minskiy

Card 2/2



MERCET-GASPAR, Zeuzeanna; CSDR, S.

Paper chromatographic analysis of the liquid phase of Zervicovaginal secretions of cows. Acta veter flung 13 no.2: 175-187 163.

l. Physiologisches Institut (Direktor: A. Kemeny) und Geburtshilfliche Klinik (Direktor: K. Bolcshazy) der Veterlaarmedizinischen Universitat in Budapest.

NEMET-GASPAR, Zsuzsanna; CSFH, S.

Citrate secretion of the genitals of cows. Acta veter Hung 13 no. 2:18°-196 '63.

1. Physiolorisches Institut (Direktor: Prof. A. Hemeny) und eburtshilfliche Elinik (Direktor: Prof. K. Holishazy) or Veterinarmedizinischen Universitat, Budapest.

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RICHTER, Richard, Dr., okl. banyamernok, a muszaki tudomanyok kandidatusa, egyetemi docens; NEMETH, Alojos, okl. banyamernok, tudomanyos kutato
On safety pillars. Pt.2. Bany lap 94 no.5: 294-300 My '61.

1. Wehezipari Muszaki Egyetem, Banyamernoki Kar, Miskolc.

HEGEDUS, Tibor; NEMETH, Andras; STEKELY, Attila

World situation and prospective trend of the manufacture of plasticizers. Magy kem lap 19 no. 1: 30-35 Ja '64.

1. Vegyipari INVEST Vallalat Kozgazdasagi Poosatalya.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001136520002-1"

GSIPAK, J.; HENETH, A.; SCULTETY, S.

Itiological role of hyperergia in acute hematogenous esteomyelitis.

Eiserletes ervestud. 6 no.6:521-526 Nev 54.

1. Ssegadi Orvestudemanyi Egyetem I. ss. Sebesseti Elinikaja.

(OSTEOMYELITIS, exper.

role of hyperergic tissue reaction in rabbits)

(ALLERGY, exper.

hyperergic reaction, etiol. role in exper. esteomyelitis in rabbits)

BENTZIK, Mihaly, dr.; BERCI, Gyorgy, dr.; NEWETH. Andras, dr.;
FETRI, Gabor, dr.

Implantation of the internal mammary artery into the heart
muscle for the improvement of its blood supply as based on
experimenta research. Magy. sebeszet 8 no.209-272:209-215
ing 55.

1. A Szegedi Orvostudomanyi Egyetem Sebeszeti Mutettani
Intesetenek knzlemenye. (Igazgato: Petri, Gebor, dr. egyeteni
tanar).

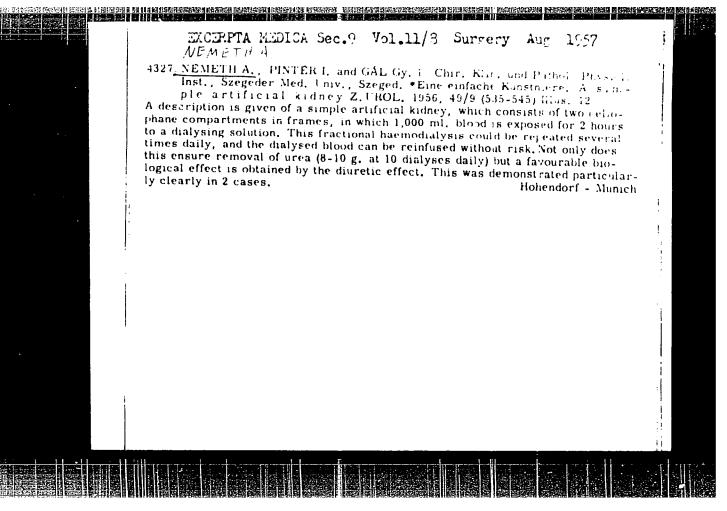
(HEART, blood supply
ischemia insuff, exper. surg., implantation of
internal mammary artery.)

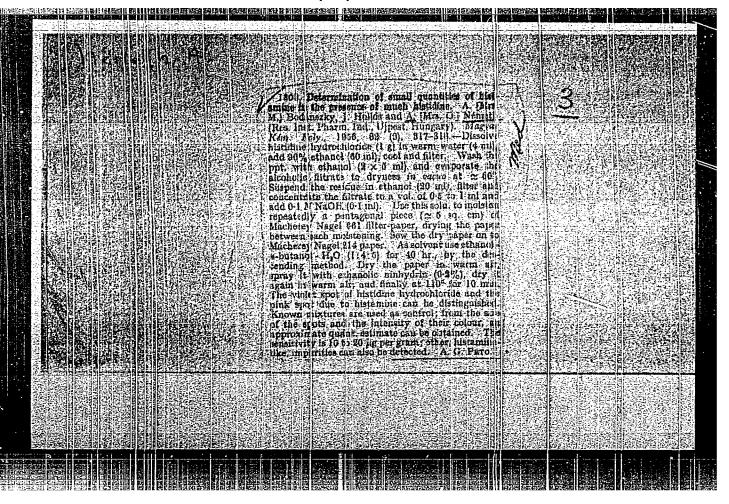
(TRANSPLANTATION
external mammary artery in ischemia of the heart.)

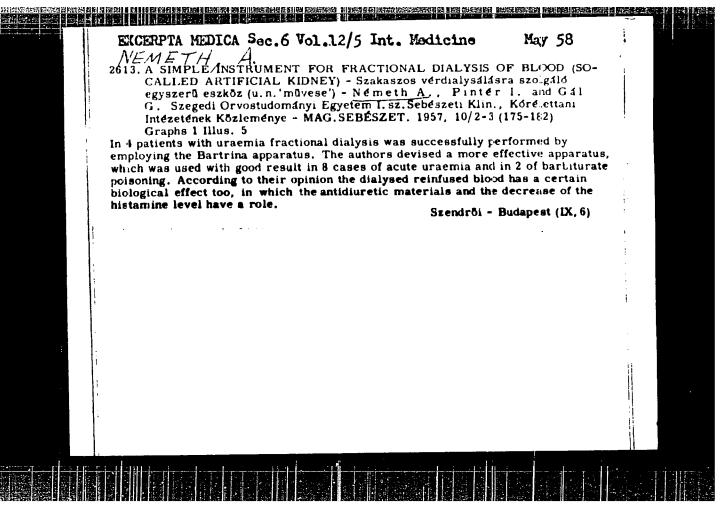
VIGH, Katalin (Mrs) (Budapest, XI., Gellert ter 4), NEMETH, A. (Mrs. (Budapest, XI., Gellert ter 4)

Qualitative analysis of cations in semimicroscopic size by means of the ring oven method. Acta chimica Hung 41 no.1/2:67-74  $^{1}64.$ 

1. Institut für Allgemeine Chemie der Technischen Universität Budapest.







QAL, Oyorgy, dr.; MEMETH, Andras, dr.

10 cases of renal complications following blood transfusion.
Orv.hetil. 101 no.1:13-18 Ja '60.

1. Szegedi Orvostudomanyi Egyetem, I. sz. Sebeszeti klinika.
(BLOOD TRAUFFUSION compl.)
(BLOOD GRAUFS)
(KIDNEY DISEASES etiol)

GAL, Gyorgy, dr.; HEMETH, Andras, dr.

Role of the "absolute" cosinophil count in the prognosis of acute uremia. Orv.hetil. 101 no.50:1770-1773 11 D'60.

1. Ssegedi Orvastudomanyi Egyetem, I. Sebesseti Klinika. (UREMIA blood) (EOSIHOPHILS)

NEMETH, Andras, dr.; GAL, Gyorgy, dr.; FAZAKAS, Sandor, dr.

The role of hypermagnesemia in uremic "toxicosis". Orv. hetil. 102 no.20:913-917 14 My '61.

1. I sz. Sebeszeti Klinika, Szeged.

(MAGNESIUM blood) (UREMIA blood)

į	HUNGA	RI

GAL, Gyorgy, Dr., Millitti, Markey, J., Talling, Bandor, Dr.; Medical University of Szegel. E. W. Markey Benedit Grvostudomanyi Egyetem, I. Sebeszeti Kliniki).

"Some Aspects of Kinney J. . . . . . Policyling Septic (Criminal) Abortus."

Budapest, Orwosi Hetller, War and Dr. 19 49, 9 June 63, pages 1066-1069.

Abstract: [Authors | Hages | 100 min; septic abortions are presented on 24 cases of a 100 min; septic abortions.

Eight deaths are reports | 100 min; septic abortions treatment for the acute uremia was effective and 100 min; septic abortions that followed. Il Hungarian, was appeared to access.

1/1

HUNGARY

Budapest, Cryosi Hetilap, Vol 104, No 34, 25 Aug 1963, pages 1602-1604.

taneous administration of cortison and 6-mercaptopurine give the cost results. All II are Western references.

2/2

HUMBARY

Baradnay, Gyula, dr.; GAL, Gyorgy, dr.; NEMETH, Andrae, dr.

Bilateral (symmetrical) renal partical necrosis. Crv. hetil.
105 no.4:1884-1888 4 0%.

1. Szegedi Grvostudomanyi Egyeten, Korbonetani. es Korszovettani Intezet es I. Sebeszeti Kiinika.

BOROS, Mihaly, dr.; GAL, Gyordy, dr.; KAISER, Gabriella, dr.; FAZEKAS, Sandor, dr.; NEMETH, Andras, dr.

Some blood coagulation problems in the treatment with "artificial kidney". Orv. hetil. 105 no.13: 595-598

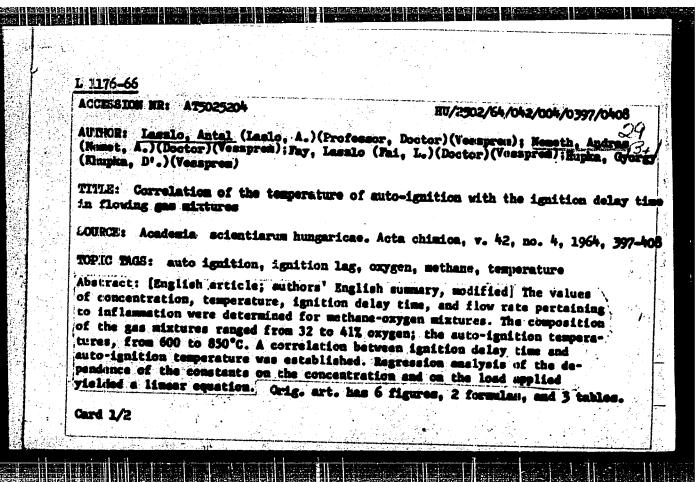
1. Szegedi Orvostudomanyi Egyetem, I.Sebeszeti Klinika.

GAL, Gyergy, dr.; FaZakaS, Sardor, dr.; NEMETH, Antran. dr.

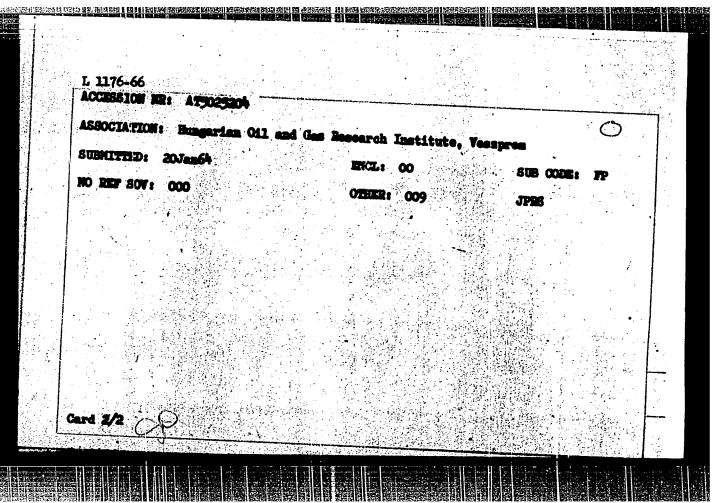
Dialysis in the treatment of barbiturate poisoning. Orv. retil.
106 no.26:1211-1213 27 Je\*45.

1. Szegedi Orv. studemanyi Egyetem, I. Seleszeti Eleiza (iraz-gator Petri, Gabor, dr.).

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L 1174-66

ACCESSION NR: A15025205

HU/2902/64/b42/004/0408/0419

AUTHOR: Legilo, Antal (Leglo, A.) (Professor, Doctor) (Vesspreit) | Negath, Andrea (Neset, A.) (Doctor) (Vesspreit); Fay, Leglo (Fai, L.) (Doctor) (Vesspreit); Scalay, Otto

(Selai, O.)(Vessprem)

TIME: Investigation of auto-ignition in a flowing system

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 42, no. 4, 1964, 408-419

TOPIC TAGS: auto ignition, ignition lag, flow rate, oxygen, methene

Abstract: [English article] Corresponding concentration, temperature, ignition delay time, and flow rate values were determined for oxygen-methans systems and an equation was derived for the characterization of the relationship between these factors. It was found that the relation is similar to that existing in a stationary system. The values calculated from the equation correlated well with experimentally determined values.

Orig. art. has 19 formulas, 9 graphs, and 1 table.

ASSOCIATION: Hungarian Oil and Gas Research Institute, Vessprem

SUBMITTED: 124y64

ENCL: 00

SUB CODE: FP

NO DEF SOV: ON

OTHER: 005 ·

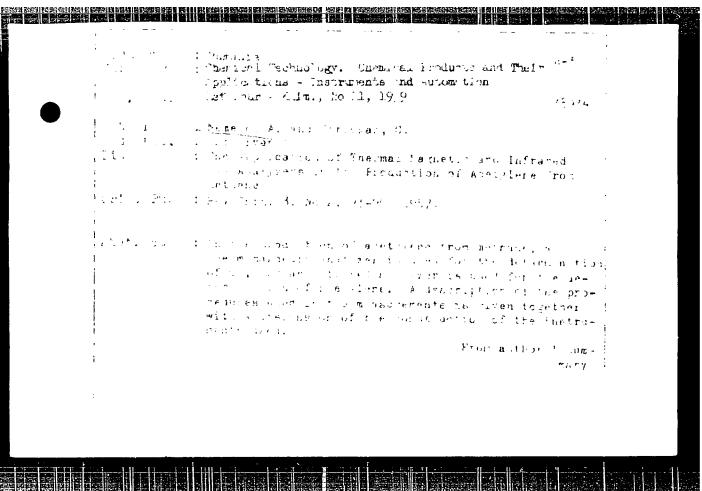
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<u> </u>	01251-67 T JWD/WE/JW/WM	SOURCE CODE: HU/2502/66/047/004/0385/0390	
	NEMETH, Andras, and SZALAY, Otto	Hungarian Oil and Gas Research Institute.	
	Ne express [Original-language vois	Tour in Givening	11 1
_	Toepler's Parallel Boam Schiler	e Analysis of Combustion Processes with C	1
	Budapest, Acta Chimica Academia	e Scientiarum Hungaricae, Vol 47, No 4, 1966;	
	based on intensity measurements of the blackening obtained by m compared with a measured refere of the method is demonstrated b formulas. [JPRS: 36,862]	nary, modified; article in English]: A method live study of combustion processes, which is by densitometry. In this method the values means of Toepler's schlieren apparatus are since series of blackenings. The applicability on example. Orig. art. has: 5 figures and 4	
	TOPIC TAGS: combustion mechan	ism, quantitative analysis	-
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# NEET: A. Flant experiences with ma net class infrared on a soriyong with the prediction of acetylene for methods. 1. 16. (haryer Kemikusok Lapje. Vel. 12, ne. 3/6, May/June 1984, Inserted, Caraman) Rotally Index of mast respect Accessics (LMI) 16. Vel. 7, ne. 4, February 1938

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Nemeth, A.; Laszio, A.

Automation of a plant for the partial oxidation of methans. p.369

MAGYAR KEMIKUSOK LAFJA. (Magyar Kemikusok Egyesulete) Budapest, Hungary. Vol.14, no.9, September 1959

Monthly List of East European Accessions (EEAI) LC, Vol.8, no.11 November 1959 Uncl.

2194ć

H/005/60/000/001/001/001 B124/B206

AUTHOR:

Németh, András

TITLE:

Effect of pressure on the upper ignition limit of mixtures from paraffin- and olefinic hydrocarbons containing 1-4 carbon atoms and oxygen

PERIODICAL:

Magyar Kémiai Folyóirat, no. 1, 1960, 25-30

TEXT: The upper ignition limit of mixtures of the respective gases with oxygen in the pressure range of 1-10 kg/cm<sup>2</sup> was studied, and the measurement results and respective conclusions are given in this article. When drawing up the mode of procedure, experience gained during the determination of the ignition limit was used (Ref. 5: A. László, A. Németh: Az éghetőség határai nétány háromkomponensű gázelegyben (The ignition limits of some ternary gas mixtures), Annual MÁFKI, 1959, in print). A system of communicating vessels with mercury, which was operated by nitrogen, was used for producing pressure. The liquid level was measured with an electronic device, the pressure between 0 and 5 kg/cm<sup>2</sup> was deter-

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V

21946

Effect of pressure on the ...

H/005/60/000/001/001/001 B124/B206

mined with a mercury capillary manometer, and above 5 kg/cm<sup>2</sup> with a tubular spring manometer. A spark plug with a gap of 4-5 mm, operated by a 220-v, 60-w spark coil was used for igniting. A mercury detector was designed by the author for observing the explosion. The gases investigated were produced in the following way: methane from natural gas, ethane from a natural-gas fraction with up to 80% ethane concentration, propane and butane from commercial PB-gas, and the unsaturated compounds from the corresponding alcohols by means of dehydration on Al<sub>2</sub>0<sub>3</sub>. The gases were concentrated by means of adsorption on active carbon.

Gas chromatography with active coal, an  ${\rm Al}_2{\rm O}_3$  column, and  ${\rm CO}_2$  as carrier gas were used for the gas analysis. At given composition of the gas mixture, and starting from atmospheric pressure, the pressure was increased until explosion occurred under the action of spark ignition, or the upper limit of the pressure range was reached. The ignition limit for given parameters lies between the point at which the gas mixture ignites and the neighboring point at which it does not ignite. The measurement results are listed in Tables 1-7. The corrected hydrocarbon percentage in the tables was calculated from the composition of the gas charged by

Card-2/+5

SJ 3/11

Effect of pressure on the ...

H/005/60/066/05\*, Sur, 55\* B124/B206

 $(CH_4 \text{ vol\%} \cdot 100)/(CH_4 \text{ vol\%} + 0_2 \text{ vol\%})$ , where the means of the formula: corresponding hydrocarbon may also be used instead of  $\mathtt{CH}_4$ . The value given is only a characteristic one since the ignition limit of pure hydrocarbon slightly deviates from it. The results obtained are absolutely reproducible. The upper ignition limit measured with oxygen rises monotonically with pressure. From the straight lines for the dependence c = f(p) for the paraffins and olefins investigated it may be seen that the relations measured can be expressed by an exponential equation. The following empirical equations were obtained:  $c = 56.0 (p-0.9)^{0.040}$  for methane,  $c = 52.5 (p-0.09)^{0.045}$  for ethane,  $c = 47.5(p-0.09)^{0.425}$  for propane,  $c = 41.5(p-0.09)^{0.045}$  for butane, =  $64.0(p-0.2)^{0.083}$  for ethylene, c =  $43.5(p-0.2)^{0.095}$  for propylene. and  $c = 32.0(p+0.2)^{0.097}$  for butylene. The values calculated from these empirical equations agree well with the values measured. The coefficients (a) and exponents (b) of the exponential functions mentioned were also investigated. The value (a) drops in both homolog series monotonically Capt 3/15

21946 H/005/60/000/001/001/001 B124/B206

Effect of pressure on the ...

Card >4/15

with the number of carbon atoms in the molecule. The value in parentheses is determined by the pressure at which the gas mixture burns at no concentration. The value of exponent (b) amounts to an average of 0 0425 for paraffins, and 0.090 for olefins. For the velocity of combustion  $\mathbf{v}_{\mathrm{b}}$ of methane, ethylene, and propylene as a function of pressure, Egerton and Lefebvre found the relation  $V_b = const.p^{-x}$ , where x = 0.5 - 0.25 as dependent on the type of hydrocarbon. According to Jost (Ref. 8: Explosions- und Verbrennungsvorgänge in Gasen. Berlin 1938 (Explosionand combustion processes in gases, Berlin 1938), p. 122), the term of velocity of combustion of masses  $(M_{\hat{b}})$  was introduced, which means the mass of substance burnt during the unit time; for methane it was  $\mathbf{M}_{\mathbf{b}}$ - const.p $^{0.50}$ , for ethylene  $\mathbf{M}_{b}$  = const.p $^{0.75}$ , and for propylene  $M_{\rm b} = const.p^{0.83}$ The relation between spark limit and velocity of combustion may thus be generalized for changes occurring under pressure effect. This article is a compilation of the major results mentioned in

CIA-RDP86-00513R001136520002-1

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Effect of pressure on the ...

H/005/60/000/00\*/oc\*/oc\* B124/B206

the second part of the author's dissertation for the Degree of Candidate. There are 4 figures, 8 tables, and 8 references: 1 Soviet-bloc and 7 non-Soviet-bloc. The four most recent references to English-language publications read as follows: A. Egerton, A. H. Lefebvre: Proc. Royal Soc., A 222, 206, 1954; C. M. Cooper, P. S. Wiezewich: Ind. Eng. Chem., 21, 1210, 1929; D. T. A. Townend: Proc. Royal Soc., A 116, 673, 1927; W. Payman, R. V. Wheeler: J. Chem. Soc., 123, 426, 1923.

ASSOCIATION:

Veszprém, Magyar Ásványolaj- és Földgáz-Kísérleti Intézet (Hungarian Research Institute of Petroleum and

Natural Gas, Veszprém)

SUBMITTED:

August 11, 1959

Card 5/15

NEMETH, Andras, dr. (Budapest, IX., Papay I.utca 6-10)

Data on the correlation between the dimension and capacity increase of flame reactors. Acta chimica Hung 41 no.4: 461-468 \*64.

1. Ungariaches Erdol und Erdgas Forschungsinstitut, Budapest-Veszprem.

IASLO, A. [Laszlo, A.] (Vengerskaya Harodnaya Respublika), Hauff, A.

[Besoth, A.] (Vengerskaya Harodnaya Respublika)

Technological problems involved in the production of acetylene by an incomplete combustion of methane. Ges.prom. 5 no.11:39-43

B '6C. (Acetylene) (Methane)

21874 H/005/60/000/007 B124/B207

11.7100

AUTHORS:

László, Antal and Németh, András

TITLE:

The ignition limits of some ternary gas mixtures

PERIODICAL: Magyar Kémiai Folyóirat, no. 7, 1960, 254-259

TEXT: In acetylene production by means of partial methane oxidation it was - for reasons of dependability in operation - necessary to know the ignition limits of a mixture consisting of hydrogen, methane, acetylene, oxygen, and nitrogen; literature provides no data on this. According to the Le Chatelier equation, the ignition limit of combustible gas mixtures can be additively determined from the respective values of the individual components in pure state with oxygen or air:  $n_1/N_1 + n_2/N_2 + n_3/N_3 + \dots = 1$ . where n<sub>1</sub>, n<sub>2</sub>.... is the separately measured lower (upper) ignition limit of the components and  $N_1, N_2, \ldots$ , the percentage of individual components at the lower (upper) ignition limit. Owing to the limited applicability of the Le Chatelier equation, it is recommended to check its accuracy in each instance by measurement. For this purpose, groups of three were formed

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### 21874

The ignition limits...

E/005/60/000/007/001/00: B124/B207

from the components mentioned the measured limit values of ignition were introduced into the Le Chatelier equation. The diagrams necessary for calculation contain, however, only the results obtained with air, and not those with pure oxygen and air concentrated with oxygen. (Ref. 3: B. Lewis, G. Elbe: Combustion, Flames and Explosions of Gases, 1951, pp. 754-757). The ignition limits of the following mixtures were measured on the basis of above considerations:  $H_2^{-0}2^{-CH}4$ ,  $H_2^{-C}2^{-N}2$ ,  $C_2H_2^{-0}2^{-H}2$ ,  $^{\text{C}}_{2}^{\text{H}}_{2}^{-\text{O}}_{2}^{-\text{N}}_{2}$  and  $^{\text{C}}_{2}^{\text{H}}_{2}^{-\text{O}}_{2}^{-\text{CH}}_{4}$ ; the mixture  $^{\text{CH}}_{4}^{-\text{O}}_{2}^{-\text{N}}_{2}$  was not measured, since, according to Ref. 4 (W. P. Jorissen: Ind. Eng. Chem. 19. 430. 1927), the limit value between the point measured with air and oxygen gives exactly a straight line. The one part of the gas mixtures gives the ignition limit of two combustible gases in oxygen, the other part the values measured at 0-100 % dilution with nitrogen in oxygen. Measurements were made in a simple laboratory device. The gas sample is taken through a stopper with two drillings and/or the reaction products are removed; the stopper is gas-tight up to 2 atmospheres. A short connecting piece is between stopper and explosion pipet. An electric spark was used for ignition: the ignition device consists of Pt electrodes reaching into a Card 2/13

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The ignition limits...

H/005/60/000/0007 (00) - [-

spherical space which ends in a glass tube. The latter is connected by means of vacuum rubber valve with the equilibration vessel which has a mercury seal. The gas mixture is conducted from the sample pipet into the spark gap; the gas is passed through a drying pipe filled with soda lime and calcium chloride. The degree of impurification of the gases used for measurement is given in Table 1: the corrections were determined on the basis of these values. Table 2 gives the results of measurement, i.e., in the first column the current number of the experiment, in columns II, III and IV the composition of the examined gas mixture in vol% and in column V, the result of measurement, where "+" denotes combustible, and "-' noncombustible. In each individual experiment, at least two determinations were made of one and the same gas mixture which indicates, that measurements are reproducible within ± 0.4 vol%. The results of measurement were recorded in the form of triangular diagrams (Figs. 2-6). The upper and the lower ignition limits of H2, CH4, C2H2 with oxygen were determined from Figs. 2, 4, and 6. Table 3 lists the values thus found and those determined from published data. A comparison shows that the measured lower limit for  $\mathrm{H}_2$  and  $\mathrm{C}_2\mathrm{H}_2$  is lower and the measured upper limit higher than the published data, while for CHA, the upper limit lies lower. The ignition limits of H2 Card 3/13

21874 E/005/60/000/007/001/001 B124/B207

The ignition limits...

and C2H2 in the air can be seen from Figs. 2 and 5: Table 4 compares these values with published data. The limit values of the mixtures  $H_2 = 0_2 = CH_A$ ,  $c_2H_2-o_2-H_2$  and  $c_2H_2-o_2-CH_4$  were determined by means of the Le Chatelier equation to be able to judge its validity, and the borderline recorded in Figs. 2, 4, and 6. Thus, it was found that the curves for C2H2-H2 and H2-CH4 are in agreement, while a considerable deviation was found to exist in mixture  $C_2H_2-CH_4$ , i.e., toward the lower values. The values measured with nitrogen were also recorded (Fig. 7), and the experimental values were found to be in agreement with the calculated ones. To determine the action of nitrogen and a combustible gas upon another combustible gas, the ignition limit of the H2-CH4 mixture as a function of the CH4 content, of the  $H_2-N_2$  mixture as a function of the  $N_2$  content (Fig. 8), as well as of  $C_2H_2$  as a function of the  $H_2$ ,  $N_2$ , and  $CH_4$  (Fig. 9) content was calculated and recorded. The results indicate that in the case of hydrogen and acetylene in certain cases methane is better suited as diluting gas than nitrogen. This experience is also confirmed by practical results. There

Card 4/13

21874 H/005/60/000/007/001/001 B124/B207

The ignition limits...

are 9 figures, 4 tables, and 6 non-Soviet-bloc references. The reference to the English-language publication reads as follows: B. Lewis, G. Elbe; Combustion, Flames and Explosions of Gases, 1951, pp. 749-752, 754-757)

ASSOCIATION: Veszprém, Magyar Ásványolaj és Földgáz Kísérleti Intézet

(Hungarian Research Institute of Petroleum and Natural Gas,

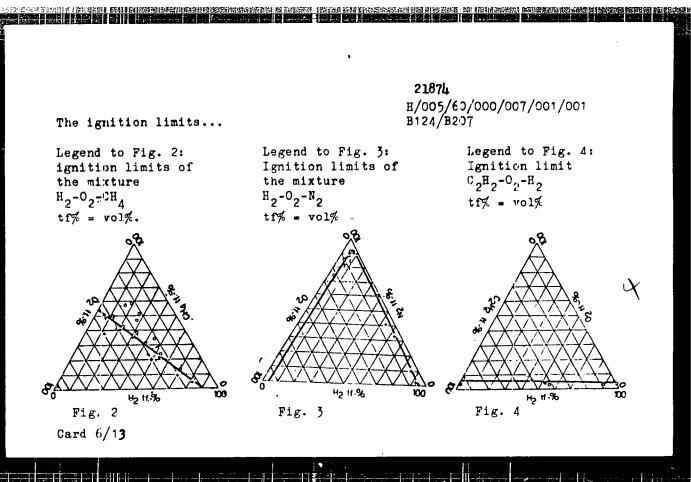
Veszprém)

SUBMITTED: October 8, 1959

Legend to Table 1: a) impurifications

	(3) Szenny	restock
	O, tl-%	N, 11-%
0,		1,0-3,0
H <sub>8</sub>	0-0,5	
CH <sub>4</sub>	. 0	0,3
C <sub>2</sub> H <sub>2</sub>	. 0	]
$N_2$	2,0	

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001136520002-1"

21874 H/005/60/000/C07/001/00: B124/B207

The ignition limits...

Legend to Table 2: 1) Current number of experiment, 2) composition of the gas mixture, vol%, 3) result

A kiedriet	1)A gáselegy šeszetétele, tf%			Fredménye(3)	A kindriot	A gásale	lo			
agresáma (1)	И, О,		CII,	Fredmenye (3)	**************************************	C <sub>t</sub> H <sub>t</sub>	0,	H,	Eredménye	
1.	18,2	22,4	59,4	_	54.	90,4	9,6	0	+	
2.	30,4	32,4	36,9	+	59.	95,4	4,6	0	-	
3.	28,3	25,3	46,4	_	60.	0	4,2	95,8	+	
4.	10,9	49,5	39,6	+	61.	0	3,3	96.7		
5.	43,2	21,7	35,1	-	62.	7,9	3,7	88,4		
6.	49,4	30,5	20,1	+	63.	41,0	3,8	55,0	_	
7.	60,4	19,9	19,7	-	64.	42,9	4.9	52,0	_	
8.	69,7	20,9	9,4	+	65.	38,5	7,2	54,2	-	
9.	9,6	90,4	0	+	66.	46,4	10,0	43,6	+	
10.	81,0	10,6	8,4				1			

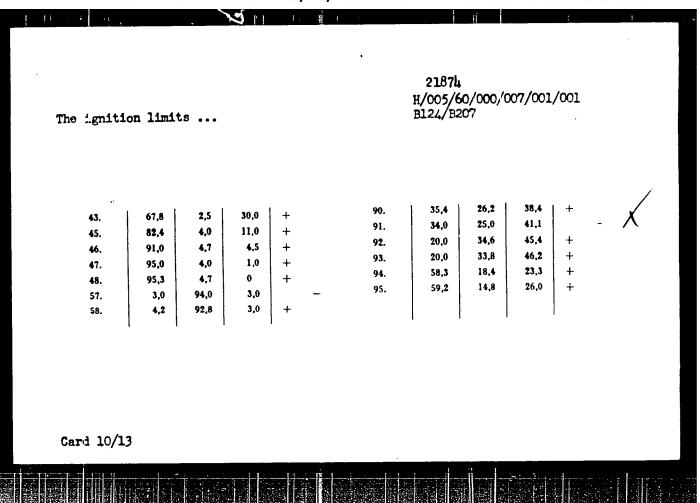
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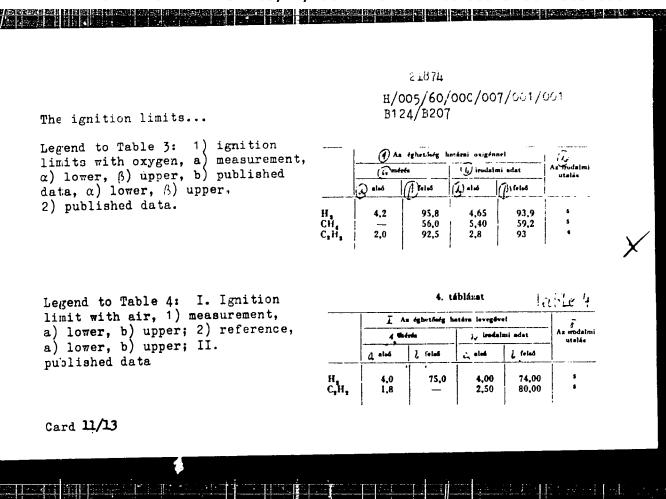
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on limit	s				H/ B1	21874 /005/60/ 24/B207	, , , , , , , , , ,	<b>7</b> /001/	001	
10,8	38,7	50,5		_		<u> </u>			<u> </u>	
4,6			+			C,H,	0,	N,		
5,9	44,0	•	+			<u> </u>			i i	
1 1	40,7	54,3		_		! !	1		+	
	5,0	0		_		1 :				
1 1		0	+			1 I	I			-
	· ·					1 1	· .			_
1	1		+							_
	I			_		l i				-
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1 (						1 1	1		1	
1 1	- 1		+			3 i	1		+	
i !				_			- 1		1	_
	10,8	4.6 45,8 5.9 44,0 5.0 40,7 95.0 5,0 91.0 9,0 91.0 9,0 80,7 13,3 69,6 15,5 53,0 24,7 52,9 22,4 20,8 35,9 20,6 36,5 31,0 32,2 31,2 29,8	10,8 38,7 50,5 4,6 45,8 49,6 5,9 44,0 50,1 5,0 40,7 54,3 95,0 5,0 0 91,0 9,0 0 80,7 13,3 6,0 69,6 15,5 14,9 53,0 24,7 22,3 52,9 22,4 24,6 20,8 35,9 43,2 20,6 36,5 42,9 31,0 32,2 36,6 31,2 29,8 39,0	10,8 38,7 50,5 4,6 45,8 49,6 + 5,9 44,0 50,1 + 5,0 40,7 54,3 95,0 5,0 0 91,0 9,0 0 + 91,0 9,0 0 0 + 80,7 13,3 6,0 + 69,6 15,5 14,9 53,0 24,7 22,3 + 52,9 22,4 24,6 20,8 35,9 43,2 20,6 36,5 42,9 + 31,0 32,2 36,6 + 31,2 29,8 39,0	10,8     38,7     50,5     —       4,6     45,8     49,6     +       5,9     44,0     50,1     +       5,0     40,7     54,3     —       95,0     5,0     0     —       91,0     9,0     0     +       91,0     9,0     0     +       80,7     13,3     6,0     +       69,6     15,5     14,9     —       53,0     24,7     22,3     +       52,9     22,4     24,6     —       20,8     35,9     43,2     —       20,6     36,5     42,9     +       31,0     32,2     36,6     +       31,2     29,8     39,0     —	10,8     38,7     50,5     —       4,6     45,8     49,6     +       5,9     44,0     50,1     +       5,0     40,7     54,3     —     67.       95,0     5,0     0     —     68.       91,0     9,0     0     +     70.       80,7     13,3     6,0     +     71.       69,6     15,5     14,9     —     72.       53,0     24,7     22,3     +     73.       52,9     22,4     24,6     —     74.       20,8     35,9     43,2     —     75.       20,6     36,5     42,9     +     76.       31,0     32,2     36,6     +     77.       31,2     29,8     39,0     —     78.	10,8	10,8       38,7       50,5       —	10,8	10,8   38,7   50,5   -

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igni	tion lim	its					5/60/00 /B207	0/007/0	201/0	Xl	
27.	39,9	279	32,2		55.	2,0	94,5	3,5	+		
28.	0	42,0	58,1		56.	1,0	95,8	3,5	+		
29.	o	43,4	56,6	_							
31.	0	44,9	55,1	+					ļ		
	1 1					C'H"	0,	CII.			
	н,	0,	N,		80.	20.4	29.0	40,1	+		
	İ i	i			80. 81.	30,4	25,0 25,0	43,6	+		
32.	5,5	11,7	82,5	+	82.	100,0	0	0			
33.	4,2	9,2	86,6	-	83.	31,3	32,4	35,2	+	_	
34.	4,5	3,4	92,0	-		13,0	16,5	50,0	+	_	
35.	8,3	6,8	85,0	+	,84. 85.	16,4	30,8	52,8			X
36.	4,9	6,2	89,0	+			10,4	14,6		_	- (
37.	6,9	2,5	90,6	+	86.	75,0	23,0	51.6			
38.	36,5	2,2	61,3	i -	87.	25,4	23,8	51,6 41,4		_	
39.	53,0	4,1	43,0	+	88.	34,8	27,4	38,4	١.	_	
42.	61,5	4,0	34,5	+	89.	34,2	21,4	30,9	+		
ard 9/	1 '	٠ ١	•	•		'			•		





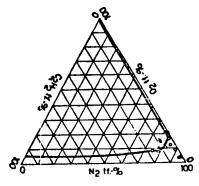
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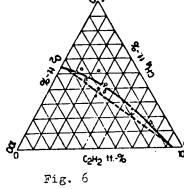
The ignition limits...

Legend to Fig. 5: Ignition limit of the mixture C2H2-O2-N2 tf % = vol%

Legend to Fig. 6: Ignition limit of the mixture C2H2-O2-CH4 tf% = vo1%

Legend to Fig. 7: Ignition limits of C2H2 and H2 when diluted with N2 a) ignition limit of vol% of [combustible gas + N2], b) vol% oxygen, c) N2/combustible gas





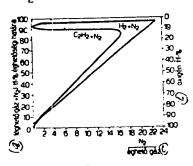


Fig. 5 Card 12/13

Fig. 7

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H/005/60/000/007/001/001 B124/B207

The ignition limits...

Legend to Fig. 8: ignition limits a) ignition limit of  $(H_2 + x)$ , vol%

Legend to Fig. 9: Ignition limits of of  $\rm H_2$  when diluted with  $\rm N_2$  and  $\rm CH_4$ ;  $\rm C_2H_2$  when diluted with  $\rm N_2$ ,  $\rm CH_4$  and  $\rm H_2$ ; a) ignition limit of  $C_2^{H_2} + x$ , vol $\pi$ 

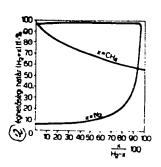


Fig. 8 Card 13/13

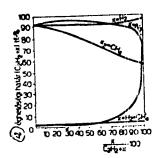
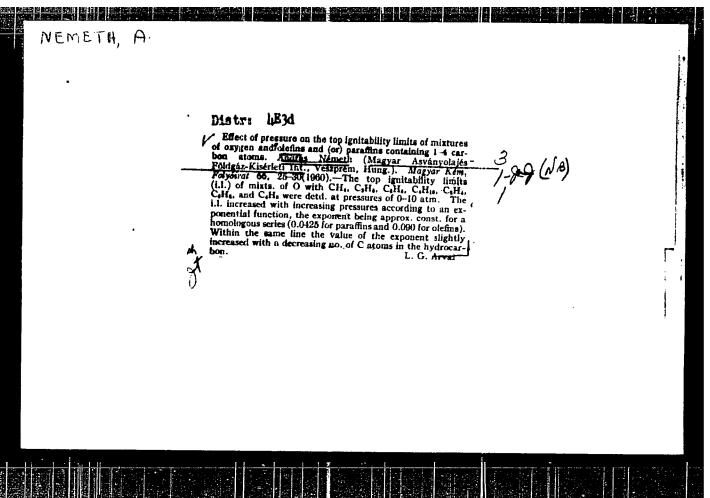


Fig. 9

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S/0£1/62/000/008/039/057 B156/E101

2266 AUTHORS:

Németh, András, Losonczy, Géza

TITLE:

Upper detonation point of methane under pressure, determined

by the dynamic method

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 8, 1362, 480, abstract 8M178 (Magyar ásványolajés földgáz kisérl. int. közl., no. 2,

1961, 278-284)

TEXT: The upper detonation points of mixtures of methane and oxygen at pressures up to 3 atm were determined by the dynamic method devised. An empirical equation was derived from the data obtained for calculating upper detonation points as a function of pressure. Abstracter's note: Complete translation.]

Card 1/1

H/006/61/000/004/001/001 D228/D301

11.7100

AUTHOR:

Németh, András

TITLE:

Study of the limits of combustibility of combustible gas-oxygen mixtures for designing their preheating

PERIODICAL:

Magyar kémikusok lapja, no. 4, 1961, 185-188

TEXT: This study of preheating combustible gas-oxygen mixtures is proposed to fill the gap in technical literature. The main problem is that the mixture with maximum preheating should not ignite. There is an upper and lower limit of combustibility and the preheating of the mixture should take place outside these limits. The limits (composition of mixture) have to be determined as a function of temperature and pressure. An increase of the temperature increases the upper limit and decreases the lower limit, making the burning range wider. The relation is complex and hyperbolic. The relation between the limits of combustibility and pressure is not so clear. C<sub>1</sub> to C<sub>4</sub> paraffins and olephins were studied and the upper limit was found to increase with

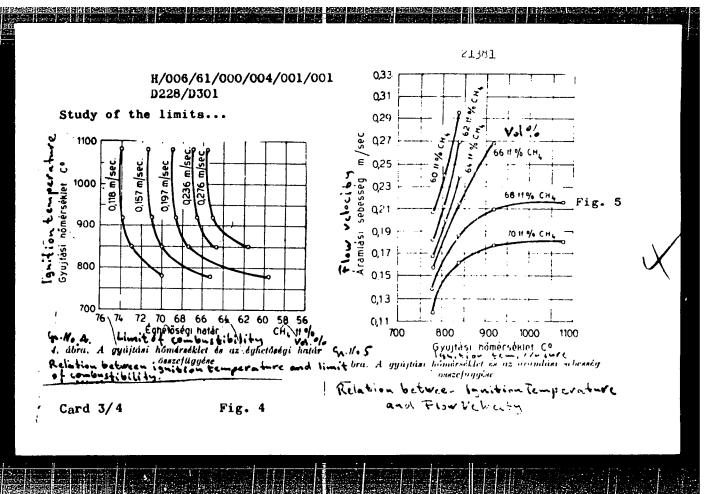
X

H/006/61/000/004/001/001 D228/D301

Study of the limits of ...

the 0.0425 power in the case of paraffins and with the 0.09 power in the case of olephins. The final temperature of preheating is limited, so that no self-ignition should occur. The temperature of the heating fluid is limited by the requirement that the wall temperature should be low enough not to introduce such high energy which could ignite the mixture. Parallel flow heat exchangers, with the recirculation of the heating medium are suggested. Experiments were made with a methon--oxygen mixture to obtain relationships between ignition power, limit of combustibility and flow velocity. The quantitative results are true only in the case of the mixtures and apparatus used in the experiment, but the relations are supposed to be valid generally. As the heating wire was placed in a closed quartz tube, the temperature of the wall of this tube was assumed to be the same as that of the heating wire, making it possible to calculate the temperature from the power data of the original experiment. The relations between ignition temperature, limit of combustibility and flow velocity are shown in Figs. 4 and 5.

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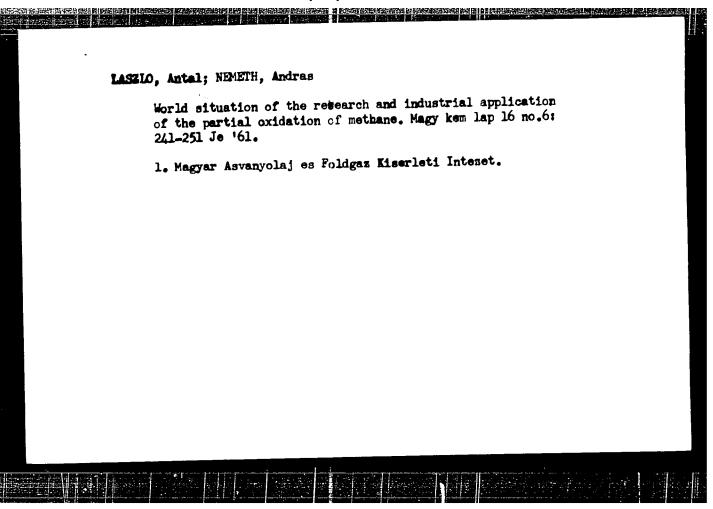
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Study of the limits of ...

These relations can be extended to the whole range of combustibility. Then the ignition temperature versus mixture concentration would show a minimum at the stochiometric mixture, symmetrically increasing toward the limits of combustibility. The power function of the flow velocity and of the ignition temperature would have a maximum power in the case of stochiometric mixture. The conclusions are: a) Mixtures near the limits of combustibility can be preheated to a higher temperature than those near to the stochiometric mixture; b) the velocity of the heated mixture should be high, this will allow higher preheat temperature and higher heat transfer rate; c) the increase of pressure is disadvantageous as it increases the range of combustibility. Having two similar mixtures, the one under atmospheric pressure is nearer to the limit of combustibility than the one under pressure. There are 5 graphs and 6 references: 5 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: J.W. Linnet, and J.S. Simpson. Reinhold, New York 1957, 20. old., Sixth Symposium on combustion.

ASSOCIATION: Magyar ásványolaj és földgáz kísérleti intežet (Hungarian Petroleum and Natural Gas Experimental Institute)

Card 4/4



31875 5/170/62/005/001/003/013 B104/B102

11.8200

AUTHOR:

Nemet, Andrash

TITLE:

Study of the upper combustion limit of hydrocarbon gases on

pressure changes

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, v. 5, no. 1, 1962, 27-32

The upper combustion limit of a mixture of paraffin and olefin having 1-4 carbon atoms has been studied as a function of pressure. The pressure created in communicating containers was measured up to 5 atm with a mercury pressure gauge, and above 5 atm it was measured with a Bourdon pressure gauge. A mercury detector was developed to indicate explosions. The pressure increase during explosion was recorded electrically. The explosion pipette was 35 mm high and its diameter was also 35 mm; it could withstand up to 80 atm. One test series was performed between 1 and 5 atm, another between 1 and 10 atm. The pressure was increased from atmospheric pressure till it was impossible to ignite the gas with a spark. The gases were analyzed after combustion. The results proved completely reproducible. The following upper combustion limits C = f(p) (C in

Card 1/3

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B104/B102
Study of the upper combustion...
% by volume) have been attained:
                 methane..... C = 56.0 (p - 0.9)^{0.040}
                 ethane...... C = 52.5 (p - 0.9)^{0.045}
                  propane..... C = 47.5 (p - 0.)^{-.425}
                  butane..... C = 41.5 (p - 0.9)^{0.045}
                  ethylene..... C = 64.0 (p - 0.2)^{0.083}
                  propylene.... C = 43.5 (p - 0.2)^{0.095}
                  butylene..... C = 52.0 (p - 0.2)^{0.097}
The theoretical adiabatic flame temperatures of the limiting paraffin
mixtures are nearly linear functions of 1,0 and have been calculated from
the well-known relation \Delta H_r^0 + \sum H_k^i - \sum H_R^i - 0, where \Delta H_r^0 denotes the
standard reaction heat, \sum H_R^i and \sum H_k^i are enthalpy differences between the
initial and final substances at temperature t and at normal temperature
There are 4 figures, 1 table, and 8 references: 1 Soviet-bloc and
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ASSOCIATION: Scientific Research Institute for Petroleum and Natural

Gas, Budapest, Hungary

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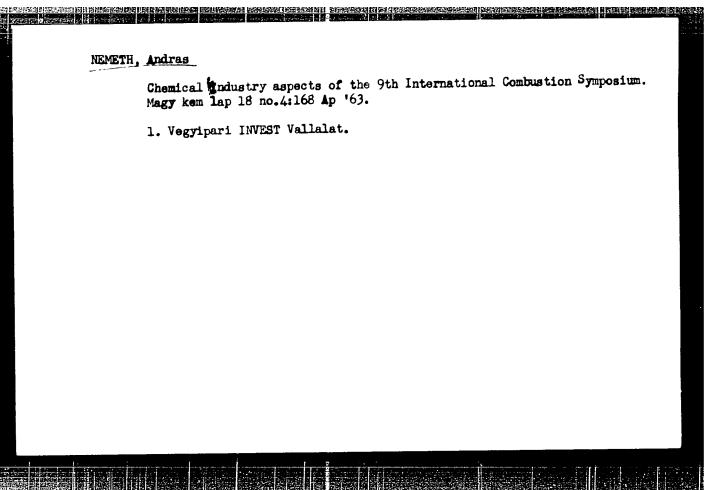
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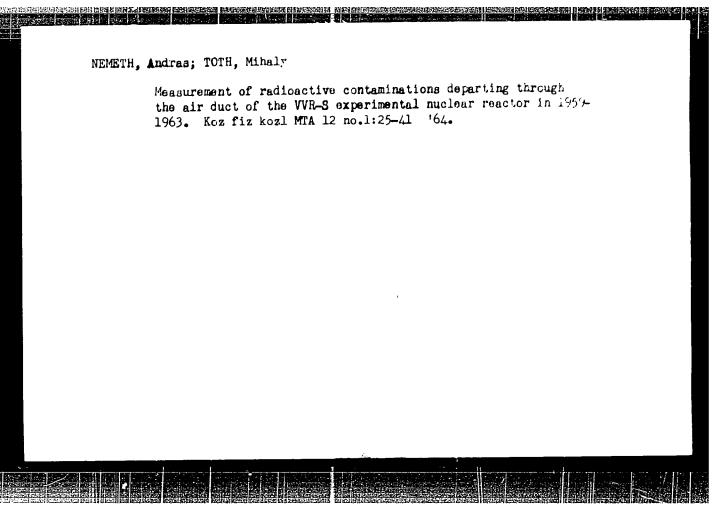
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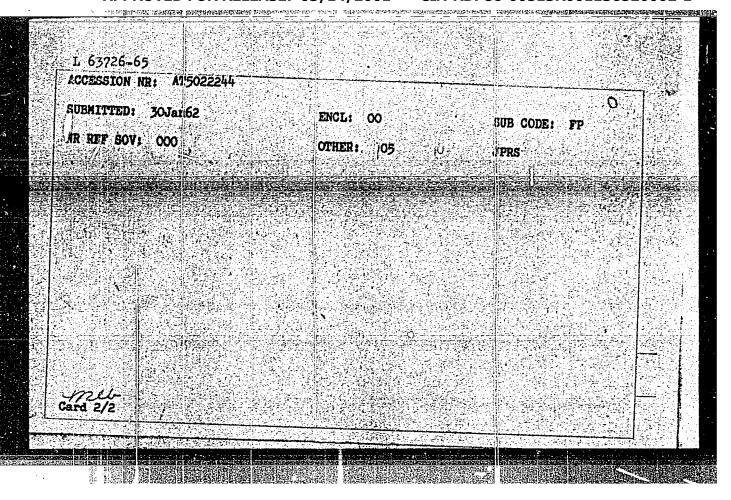
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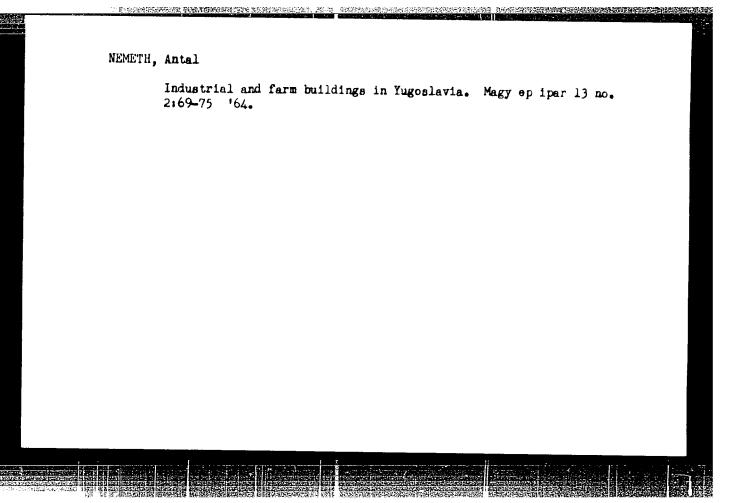
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L 63726-65 ACCESSION NR: A15022244 HU/25/02/64/0041/0004/0461/0468 AUTHOR: Nemeth, Andras (Hemet, A.) (Doctor) (Budapest) TIPLE: Relations between the increase in dimensions and capacity of flame SOURCE: Academiae scientiarum hungaricae. Acta chimica, v. 41, no. 4, 1964, TOPIC TAGS: Flags, oxidation; chemical laboratory apparatus; methane ABSTRACT: Equations were derived on a theoretical basis for the characterization of the correlation between the increase in dimensions and increase in capacity for flame reactors. The validity of the equation was verified by data obtained by actual measurements on flame reactors for partial methans oxidation, in laboratorypilot-plant-, and industriel-scale experiments. Orig. art. has: 2 tables, 25 formulas, 1 graph. ASSOCIATION: Ungarisches Erdol und Erdgas Forschungsinslitut, Budapest Hungarian Research Institut for aPetroleum and Natural Gas) Card 1/2

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